



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/511,828	10/20/2004	Alain Coudurier	COUDURIER1	8826

1444 7590 03/29/2007
BROWDY AND NEIMARK, P.L.L.C.
624 NINTH STREET, NW
SUITE 300
WASHINGTON, DC 20001-5303

EXAMINER

WYSZOMIERSKI, GEORGE P

ART UNIT	PAPER NUMBER
----------	--------------

1742

SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE
3 MONTHS	03/29/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Office Action Summary

Application No.

10/511,828

Applicant(s)

COUDURIER, ALAIN

Examiner

George P. Wyszomierski

Art Unit

1742

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-15 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-15 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. ____.
 - ☒ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____. |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date <u>10/20/2004</u> . | 6) <input type="checkbox"/> Other: ____. |

1. Claim Interpretation

The statement of a "food cooking surface" in claim 1 is given little weight in the absence of any particular limitation on the size or shape of this surface, i.e. any reasonably flat surface will, under a certain set of conditions, be appropriate for the purpose of cooking food.

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 1, 5, 9, 14 and 15 are rejected under 35 U.S.C. 102(b) as being anticipated by Eide (U.S. Patent 4,596,236).

Claims 1, 5, 9, 14 and 15 are rejected under 35 U.S.C. 102(b) as being anticipated by Myers et al. (U.S. patent 4,673,468).

Claims 1, 5, 9, 11, 14 and 15 are rejected under 35 U.S.C. 102(b) as being anticipated by Manov et al. (U.S. patent 5,641,421).

Each of Eide, Myers and Manov disclose cooking surfaces or kitchen utensils including an amorphous alloy obtained by what can be interpreted as depositing or assembling an amorphous alloy on a substrate, the substrate being one of the materials as recited in instant claim 14. See Eide column 5, lines 11-32, Myers example 9, or Manov figures 4A-4D.

Additionally, Manov discloses the known method of forming amorphous alloys by melt spinning

Art Unit: 1742

as recited in instant claim 11; see Manov column 4, line 53. Thus, all aspects of the claimed invention are held to be fully disclosed by Eide, Myers et al., or Manov et al.

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 6-8 and 10-13 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Eide or Myers et al.

Claims 6-8, 10, 12 and 13 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Manov et al.

The prior art does not disclose the process limitations recited in product-by-process terms in the instant claims. However, it is unclear what distinction, if any, could be made between the surfaces as disclosed in the prior art and surfaces that are within the scope of the instant claims. It would thus appear that the products as claimed are in fact the same (in the sense of 35 USC 102) as the products disclosed in the prior art.

At a minimum, the examiner notes that it is well settled that a product-by-process claim defines a product, and that when the prior art discloses a product substantially the same as that being claimed, differing only in the manner by which it is made, the burden falls to applicant to show that any process steps associated therewith result in a product materially different from that disclosed in the prior art. See *In re Brown* (173 USPQ 685) and *In re Fessman* (180 USPQ 524). In the present case, Applicant has not met this burden. Thus, a prima facie case of

Art Unit: 1742

obviousness is established between the disclosure of Eid, Myers et al., or Manov et al. and the presently claimed invention.

6. Claims 6 and 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Eide, Myers et al., or Manov et al., any of which in view of Hashimoto et al (U.S. Patent 5,380,375).

The Hashimoto patent indicates that it was known in the art, at the time of the invention, to deposit amorphous alloys of a great variety of compositions (see Hashimoto Table 1) on a substrate by a sputtering process. This teaching of Hashimoto would have motivated one of skill in the art to deposit the amorphous materials as disclosed by Eide, Myers et al. or Manov et al. by a sputtering method.

7. Claim 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over Eide, Myers et al. or Manov et al., any of which in view of Hays (PG Pub. No. 2002/0003013).

Hays paragraph [0014] indicates that it was known in the art, at the time of the invention, to form bulk metallic glass (i.e. amorphous alloys) by powder metallurgy steps. Since the final product in Hays is a metallic glass, such a process must also include vitrification as recited in the instant claim. This disclosure of Hays would have motivated one of skill in the art to form the amorphous materials as disclosed by Eide, Myers et al. or Manov et al. by the process steps as defined in the instant claim.

Art Unit: 1742

8. Claims 2-4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lin et al. (U.S. patent 5,735,975) or Xing et al. (U.S. Patent 6,692,590), either of which in alone or in view of Eide, Myers et al. or Manov et al.

The Lin and Xing patents disclose amorphous alloy compositions as recited in instant claims 3 and 4; see the Table in column 7 of Lin or Xing column 4, lines 19-22. Lin and Xing further indicate that non-amorphous phases may be present in such alloys as a result of either an insufficiently rapid quenching of the alloy material or from a brief heating of an already formed amorphous alloy; this is analogous to the presence of the nanocrystalline phase as recited in instant claim 2.

Lin and Xing do not specifically disclose food cooking surfaces or kitchen appliances made of such materials. However,

a) It is unclear what specific physical limitations would be implied by the term "food cooking surface", as stated in item no. 1 supra.

b) Each of Eide, Myers and Manov et al. indicate that it was well-known in the art, at the time of the invention, to employ an amorphous alloy as a cookware or kitchen utensil surface, and discuss advantages attributable thereto.

Thus, the metallic materials of Lin et al. and Xing et al. do not appear to be patentably distinguishable from the materials as defined in the instant claims, especially in view of the specific known use of amorphous materials as set forth in Eide, Myers et al., or Manov et al.


9. The remainder of the art cited on the attached PTO-892 and 1449 forms is of interest. This art is held to be no more relevant to the claimed invention than the art as applied in the rejections, supra.

Art Unit: 1742

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to George Wyszomierski whose telephone number is (571) 272-1252. The examiner can normally be reached on Monday thru Friday from 8:00 a.m. to 4:30 p.m. Eastern time.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Roy King, can be reached on (571) 272-1244. All patent application related correspondence transmitted by facsimile must be directed to the central facsimile number, (571)-273-8300. This Central FAX Number is the result of relocating the Central FAX server to the Office's Alexandria, Virginia campus.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


GEORGE WYSZOMIERSKI
PRIMARY EXAMINER
GROUP 1742

GPW
March 27, 2007